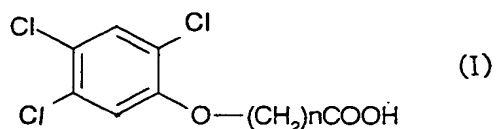


What is claimed is:

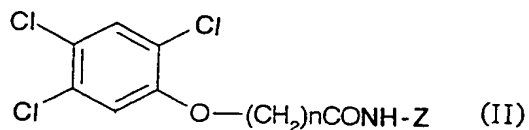
1. A 2,4,5-trichlorophenoxyalkyl carboxylic acid represented by the following formula (I):



where n is an integer of 1 to 10.

2. An immunoassay of dioxins, wherein the 2,4,5-trichlorophenoxyalkyl carboxylic acid according to claim 1 is used as an antigen for a competitive immunoassay.

3. A 2,4,5-trichlorophenoxyalkyl amide derivative represented by the following formula (II):

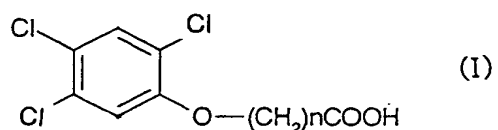


where n is an integer of 1 to 10, and Z is a carrier compound or a label.

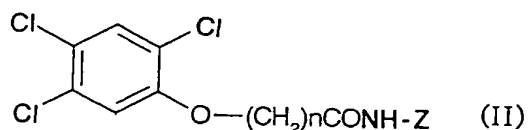
4. An immunoassay of dioxins, wherein the 2,4,5-trichlorophenoxyalkyl amide derivative according to claim 3 is used as

an antigen for a competitive immunoassay.

5. An immunoassay kit for dioxins comprising a 2,4,5-trichlorophenoxyalkyl carboxylic acid represented by the following formula (I):



where n is an integer of 1 to 10,
or a 2,4,5-trichlorophenoxyalkyl amide derivative represented by the following formula (II):



where n is an integer of 1 to 10, and Z is a carrier compound or a label.

6. The immunoassay kit according to claim 5, wherein the kit comprises 2,4,5-trichlorophenoxyalkyl amide derivative (II) which is immobilized to a solid phase as an antigen, a primary antibody to dioxins and a labeled secondary antibody to the primary antibody.